

Sandvine Policy Traffic Switch 24000

Enabling Better Broadband with Network Policy Control

Sandvine is dedicated to building solutions that allow today's DSL, FTTx, cable, fixed wireless and mobile data service providers to increase network profitability while improving the quality of experience (QoE) for the consumer.

Network policy control is the mechanism by which network elements implement the coordinated service policies that comprise today's innovative network management solutions. A network policy control architecture helps service providers of all sizes to maximize the profitability of their networks while protecting the subscriber experience.



Your Platform for Increased Profitability

The Sandvine Policy Traffic Switch portfolio helps service providers to address key business challenges. The PTS 24000 is the flagship offering in the PTS portfolio, the most widely deployed network intelligence platform in the world. With 20 Gbps, 40 Gbps and 60 Gbps models, the PTS 24000 is ideally suited for large networks poised for capacity growth.

Like all models in the Policy Traffic Switch portfolio, the PTS 24000 is designed with a novel clustering approach that not only delivers true N:N+1 redundancy, but allows deployments to scale linearly by adding units as network capacity increases. In the case of the PTS 24000, clusters can scale up to 360 Gbps, making this model ideal for deployment in the world's largest networks.



Whether a network operator is operating in an emerging market where sustainable growth is the primary issue, or fighting in a competitive landscape where rapid innovation is the key to success, the PTS is the platform that can take the network to the next level.

Traffic Optimization

- Improve subscriber quality of experience while complying with equity and fairness objectives
- Implement fair congestion management solutions to reduce the capacity needed for growth and peak hours

Service Creation

- Enhance the Internet experience while unlocking new revenue opportunities with personalized services

Operations Management

- Minimize malicious network traffic, including outbound e-mail spam
- Simplify regulatory filtering compliance
- Identify quality issues before subscribers do

Key Benefits

- Scalability up to 360 Gbps and 5 million subscribers
- Provides consistent access-independent network policy control
- Unsurpassed visibility into network usage, including per-subscriber application awareness
- Integration with Solutions Partner Ecosystem to enable new value-added services
- Solutions for multiple business needs

Technical Details and Specifications

The Policy Traffic Switch platform is a highly scalable network element that enables Sandvine's full suite of network policy control solutions. With stateful traffic identification, standards-based interfaces and the broadest range of policy management options, the PTS lets service providers protect or enhance subscriber quality of experience while simultaneously achieving business and operational objectives.

PTS Portfolio Performance

The following table provides performance metrics under typical network conditions. Actual performance may vary based upon the deployment characteristics.

	Cluster	24500		24300		24100	14500	14210	8210
Aggregate Throughput	360 Gbps	60 Gbps	40 Gbps	40 Gbps	20 Gbps	20 Gbps	10 Gbps	4 Gbps	1 Gbps
New flows/sec	9 M	1.5 M	1 M	1 M	500 K	500 K	500 K	200 K	50 K
Concurrent Flows	270 M	50 M	25 M	25 M	15 M	15 M	15 M	6 M	750 K
Subscribers	5 M	5 M	2 M	2 M	1 M	1 M	1 M	400 K	50 K

PTS 24000 Port and Interface Options

The PTS 24000 has two interface blades available and two bypass blades. Any combination of two of these blades can be inserted into the two I/O interface slots available on the PTS 24000.

The BLD 24010 is a 20 Gbps data interface blade that has 14 ports for data intersection or clustering (12 are SFP/SFP+, 2 are XFP).

BLD 24010 20 Gbps	12 ports (cluster or data)	1 GE	Copper	10/100/1000T	SFP
			Optical	SX (MM)	
10 GE	Optical	ZX (SM)	SFP+		
		SR (MM)			
		LRM (MM)			
		LR (SM)			
2 ports (cluster or data)	10 GE	Optical	ER (SM)	XFP	
			SR (MM)		
			LRM (MM)		
			LR (SM)		
ER (SM)					

BLD 24010 port and interface options

The BLD 24020 is a 40 Gbps data interface blade that has 8 cluster ports and 4 data intersection ports. All of these ports are SFP/SFP+ modules.

BLD 24020 40 Gbps	8 ports (cluster)	1 GE	Copper	10/100/1000T	SFP
			Optical	SX (MM)	
10 GE	Optical	ZX (SM)	SFP+		
		SR (MM)			
		LRM (MM)			
		LR (SM)			
4 ports (data)	10 GE	Optical	ER (SM)	SFP+	
			SR (MM)		
			LRM (MM)		
			LR (SM)		
ER (SM)					

BLD 24020 port and interface options

Deployment Options

The PTS 24000 can be installed in the network in a number of configurations; including inline, offline, hairpin and clustered deployments. A PTS cluster retains full traffic identification and policy enforcement capabilities even in the presence of asymmetric routing.

Redundancy and High Availability

- N:N+1 clustering for simple, cost-effective solution redundancy
- Dual console ports, dual Ethernet management ports
- Redundant, field-replaceable hard-drives, power supplies and fans
- Optional interface bypass blades for power failures and major system events

BLD 24030	62.5 µm	MM	6 Link
BLD 24050	50 µm		
BLD 24040	9 µm	SM	2 Link
BLD 24032	62.5 µm	MM	
BLD 24052	50 µm		
BLD 24042	9 µm	SM	

Bypass blade options

Software Licensing

The Policy Traffic Switch requires the Base Platform Software license, which includes the following applications:

- Network Demographics
- Subscriber Policy Broker
- Service Definition Manager

A Sandvine Storage, Reporting and Policy (SRP) platform is required to enable the applications above. Additional software licenses are available to address specific business objectives.

Certifications and Approvals

- NEBS Level 3 certified
- Product Safety and EMC approvals available on request

PTS 24000 Physical Specifications

- Dimensions: 432mm x 177.8mm x 584.2mm / 17" x 7" x 23" (Width x Height x Depth)
- Mounting: Standard 19" rack - 4 RU
- Weight: 35kg / 77 lbs
- Power Consumption: max 1500 W
- Power Supply: AC 100-240 V or DC 42-60 V input
- Temperature: 0°C to +40°C / +32°F to +104°F
- Humidity: 5% to 85% non-condensing